

US009655062B2

(12) United States Patent

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(54) SYSTEM AND METHOD FOR COORDINATION OF WIRELESS MAINTENANCE CHANNEL POWER CONTROL

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(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 153 days.

(21) Appl. No.: 13/615,848

(22) Filed: Sep. 14, 2012

(65) Prior Publication Data

US 2013/0003636 A1 Jan. 3, 2013

Related U.S. Application Data

- (62) Division of application No. 12/938,864, filed on Nov.3, 2010, now abandoned, which is a division of (Continued)
- (51) Int. Cl.

 G08C 17/00 (2006.01)

 H04J 3/06 (2006.01)

 H04W 52/32 (2009.01)

 H04W 52/28 (2009.01)

 H04W 52/02 (2009.01)

 H04W 52/44 (2009.01)

(52) U.S. Cl.

CPC **H04W 52/325** (2013.01); **H04W 52/0219** (2013.01); **H04W 52/287** (2013.01); **H04W 52/322** (2013.01); **H04W** 52/0238 (2013.01);

(10) Patent No.: US 9,655,062 B2

(45) **Date of Patent:** May 16, 2017

H04W 52/0245 (2013.01); H04W 52/44 (2013.01); Y02B 60/50 (2013.01)

(58) Field of Classification Search

See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

EP 1 017 187 7/2000 EP 1 039 657 9/2000 (Continued)

OTHER PUBLICATIONS

Third Generation Partnership Project 2, "Physical Layer Standard for cdma2000 Spread Spectrum Systems," 3GPP2 C.S0002-0-2 Version 1.13 (Apr. 24, 2001).

(Continued)

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(57) ABSTRACT

In a wireless communication system, there are several wireless channels used for communication between users and a base station. Channel characteristics may be defined by whether a channel is carrying traffic data and the timing of the channel transmissions with respect to channels not carrying traffic data. Different power levels between channels carrying traffic data or not may be defined and individual power levels of each channel may be amended based on individual power level command responses.

27 Claims, 6 Drawing Sheets

